

PREDICTIVE POLICING



Presenter

Ryan Coonerty

Director of Gov't Relations & Strategy, PredPol
ryan@predpol.com

PredPol

Predict Crime in Real Time™
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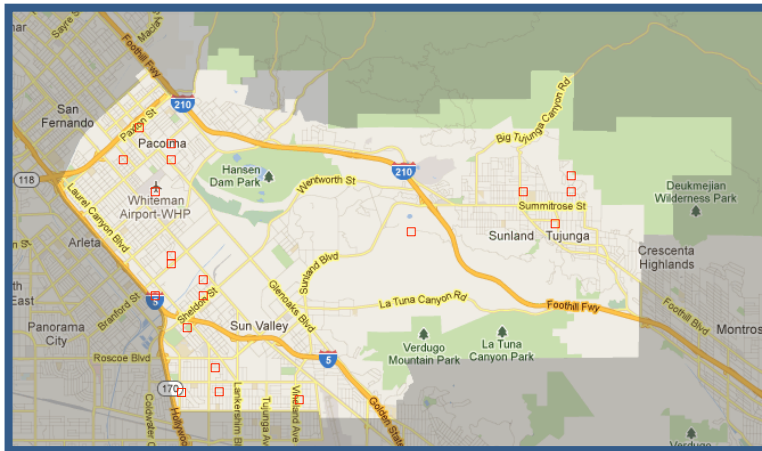
Predictive Policing is...

- **Software technology** that predicts the time and place of future crimes
- **High level mathematics** combined with experienced crime analysts and veteran police using their own knowledge and experience
- **More than “rear view mirror” policing** that simply maps past crime

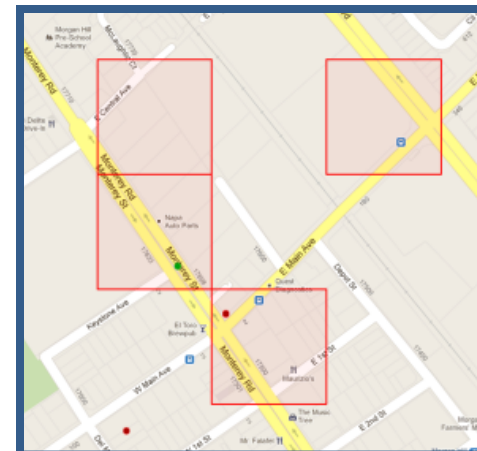


Deployment to Officers in the Field

- **Lists or Maps** of predictions in 500' x 500' boxes
- **Distributed** at start of shift or on-demand
- **'Get in the Box'** to disrupt crime during patrols

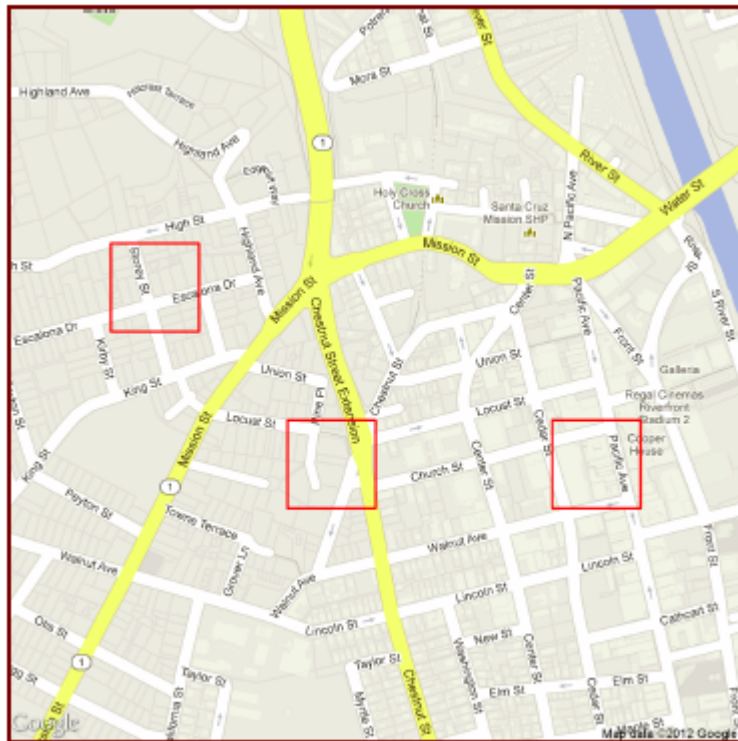


LAPD Foothill Division Deployment
starting 7 Nov 11



Santa Cruz PD Deployment
starting 1 Jul 11

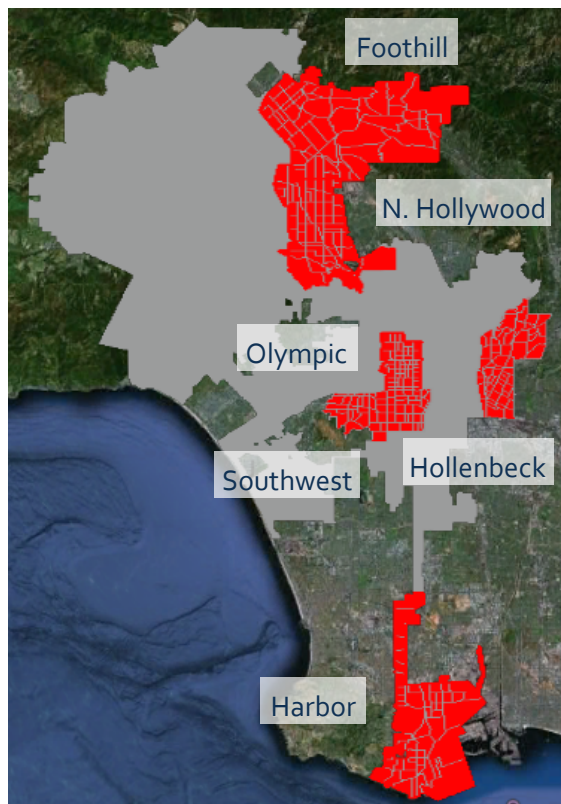
Predictive Policing in Santa Cruz, CA



▼ 19%

Santa Cruz burglaries
1st half 2011 vs. 1st half 2012

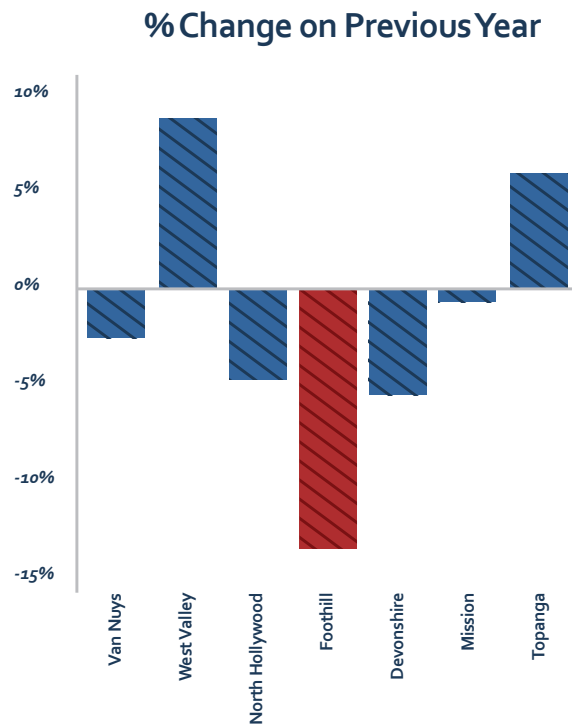
Predictive Policing in Los Angeles, CA



130 square miles
1.3 million people

Predictive Policing in Los Angeles, CA

How do we know it worked in LA?



LA Foothill Division

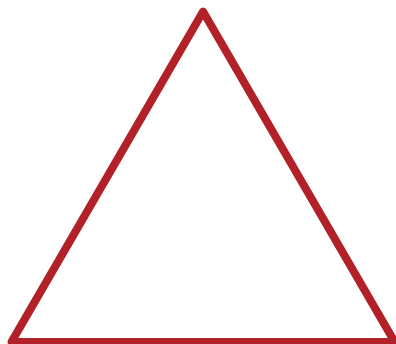
▼ 12%

Rest of LA

▲ 0.4%

The Science

repeat victimization



near-repeats

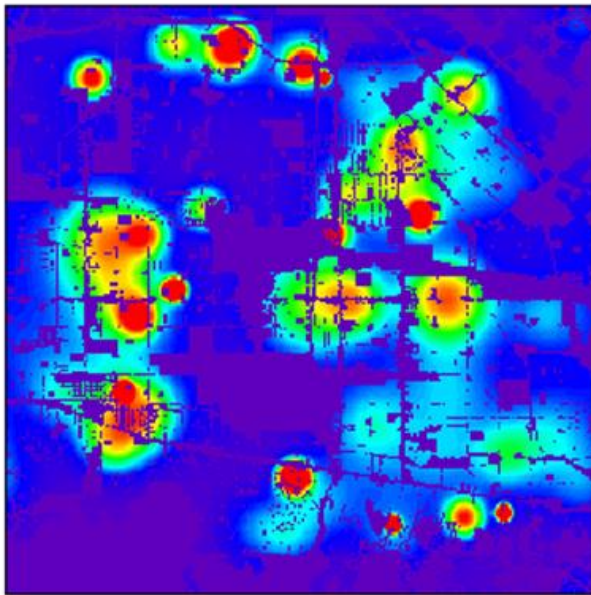
environment

$$\frac{\partial B}{\partial t} = \frac{\eta D}{4} \nabla^2 B - \omega B + \theta \omega \delta$$

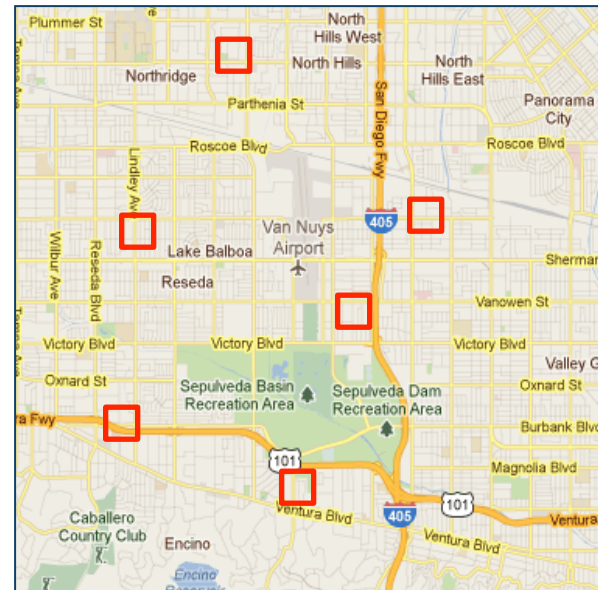
offender behavior

mathematical model

Making Predictive Policing Practical



tactical ambiguity



tactical clarity

Day-to-Day Use

[https://secure....](https://secure.predpol.com/)

specific to shifts

specific to crime types

deliver reports on paper, smart phones, tablets

micro-scale policing missions

crime mapped instantly

Watch 2 & 4

Map | Satellite

PREDICTIVE POLICING

Our Predictions

- ☒ Theft
- ☒ Auto Crime
- ☒ Burglary
- ☒ Robbery
- ☒ Assault

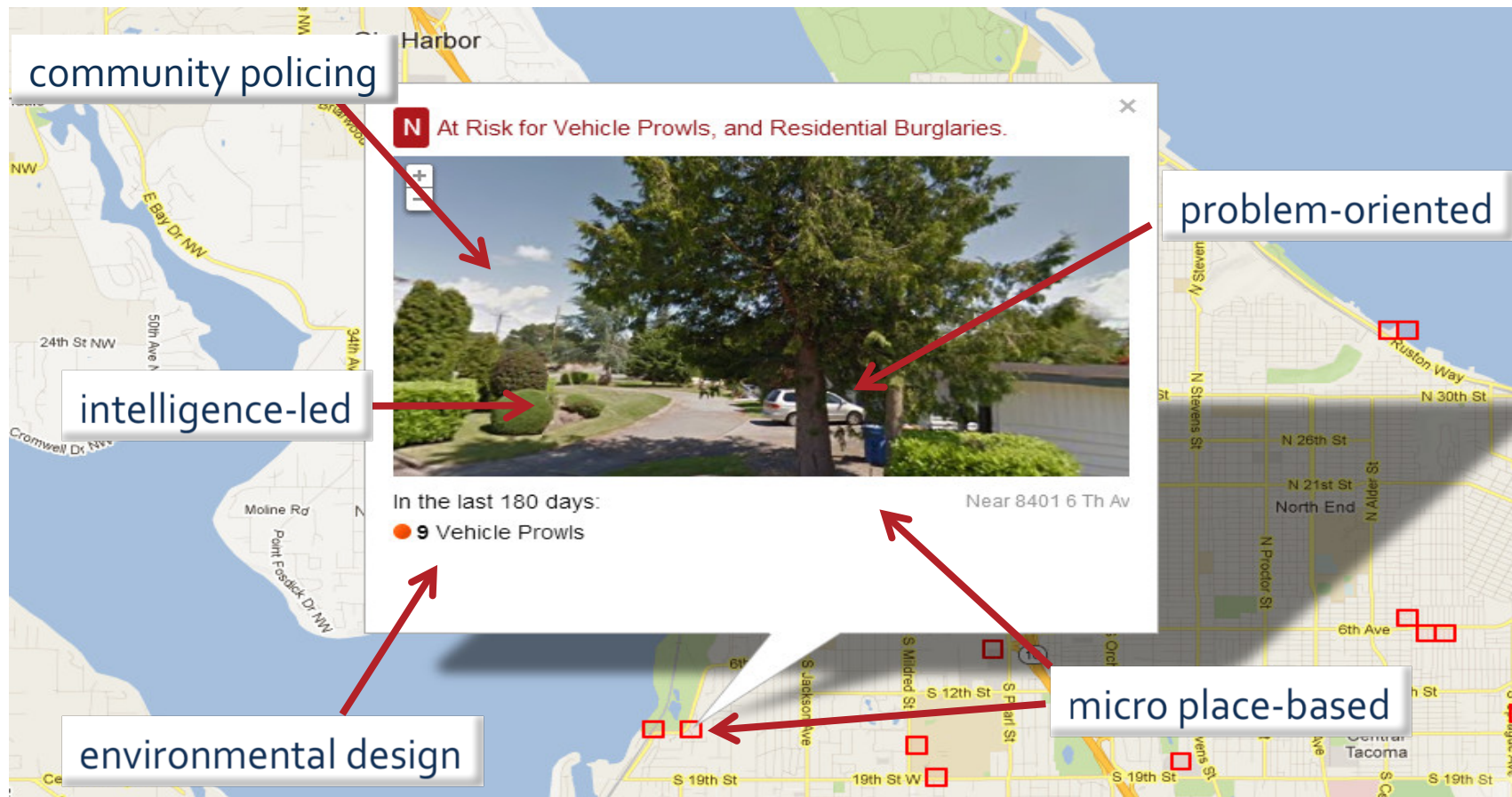
Your Predictions

Green boxes

Crime History

Zero days

'Get in the Box'



PredPol

is NOT

- A replacement for knowledge, skills & experience
- **Profiling** of individuals
- **Probable cause**
- **New hardware or new hires**

IS

- **More efficient & effective** policing
- **Assigning probabilities** of crime in space and time
- **Focal points** for effective use of police resources
- **Use of existing crime data**

PredPol Deployments

Current & Near Term Deployments

- Los Angeles, CA
- Santa Cruz, CA
- Morgan Hill, CA
- Fairfield, CA
- Atlanta, GA
- Los Gatos/Monte Sereno, CA
- Campbell, CA
- Tacoma, WA
- Salinas, CA
- Alhambra, CA
- Lansing, MI
- Seattle, WA
- San Francisco, CA
- Elgin, IL
- UK, Mexico & Australia
- Columbia, SC
- Manhattan, KS
- San Jose, CA (traffic)
- Palo Alto, CA
- Mountain View, CA
- Milpitas, CA